

## SPECIFICATION FOR AUTOMATIC SPRAY MACHINE

The Contractor shall furnish an Automatic Spray Machine designed for fully automated coating application as called for in ASTM D823-95, by use of user supplied conventional or High Volume Low Pressure (HVLP) spray equipment. Specifically, the unit shall be capable of controlling:

- Dynamic coating thickness – the ability to automatically change coating thickness through one pass of the spray heads
- Overlap between coats
- Air pressure supplied to spray guns – including atomizing, fan, and fluid air pressures for all guns

The automatic spray machine shall operate independently after the spray characteristics have been input (i.e. no user input is required during spray operations).

**Computer integration:** Shall have an integrated control interface with the capability of uploading all configuration and process data to a PC.

**Spray Area:** Automated application area shall be at least 2 feet high by 4 feet wide.

**Test Versatility:** The automatic spray machine shall be configurable to apply full coating systems consisting of multiple coats of at least two coatings. In addition, the unit shall be fully programmable to allow for variable flash and cure times as required.

**Explosion Proof:** Shall be explosion proof in order to meet OSHA safety standards for work with common coating solvents (e.g. mineral spirits, butanol, toluene, etc.).

**Mobility:** Shall come equipped with a wheeled base for simple repositioning in the laboratory.